

Office Memorandum • United States Government

TO

James k lagon, Chief, isotopes Extension

DATE December 6, 1957

ak Orege forrations Office

FROM

Tester F Rogers, Chief, Radiation Safety Dranch Division of Civilian polication, washington

SUBJECT

U L R.DIUN COLFOR 11 11, LICLILE 113 37-30-2 1/ TIFS 1-6, 10 CTR 30

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> The enclosed inspection report is forwarded for your information and necessary action 'e concur with the reconnengations submitted by Inspection Division in their cover memo dated November 20, 1957 Please keep us informed of the action you take

Enclosures ON m?

- Cp, emo Dtd 11/20/57
- 2. Cpy 1 emo Dtd 11/15/57
- Cpy Memos Dtd 11/8/57
- Cpy Rrt Dtd 11/6/57

NOV 2 0 1957

Frank K. Pittman, Deputy Director Division of Civilian Application

Signed

Marvin M. Mann, Assistant Director by for Compliance, Division of Inspection M. M. Mann

U 3. RADIUM CORPORATION, LICENSE NO. 37-30-2 W/AME.IDS 1-6, 10 CFR 30.

Symbol INS LDL

Attached is copy of an inspection report, prepared by the New York Operations Office Inspection Division, concerning activities of the above-named licensee.

Information gathered during inspection shows that the licensee is in non-compliance with the following

- 10 CFR 20.101(a)(2) Exposure of individuals in a restricted area to radiation.

 Four employees exposed to accumulated exposures in excess of 3000 mr within a 13-week period after each one received one or more weekly exposures in excess of 300 mr. 24 separate weeks where the 3000 mr standard was exceeded. (Par. 20 and Exhibit "D" of report.)
- 10 CFR 20.105 Measures to be taken after excessive exposures Exposures of four individuals mentioned in paragraph above not limited to 10% of permissible limits after excessive exposure. (See Par 20 and Exhibit "D" of report and New York Operations Office Inspection Division memorandum dated 11/15/57.)
- 10 CFR 20.201 Surveys.

 Radiation surveys have been conducted. No surveys of airborne radioactivity have been conducted, however (Par. 15 of report.)
- 10 CFR 20.201(f)(1) Caution signs, labels and signals.
 A contaminated hood and a hood used for storage not labeled. (Far. 19 of report.)
- 10 CFF 30.33 Exports of byproduct material.
 360 millicuries of tritium in the form of tritiated titanium foil exported to subsidiary company in Canada.
 (Par 16 of report)

(Continued)

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By memorandum dated September 25, 1957, concerning the identification of a luminous marker found by a child in Wyndoor, Pa., we informed you that further data would be obtained during the next regular inspection of subject licensee to determine if the Havy was the exclusive purchaser of the type markers in question. We are attaching copy of a memorandum from R. w. Kirkman, addressed to this office, dated November 8, 1957, which indicates that it appears probable that the marker found in Wyndoor, Pa., was one of those manufactured by the licensee for the Mavy. In view of this, and since paragraph 2 of the report furnished you with our memorandum of September 25, 1957, indicated similar identification, you may wish to address a letter to the U. S. Navy concerning their control of deck markers containing licensed material.

With regard to the non-compliance items set out in paragraph 2 above, it is suggested that a letter be addressed to the licensee to inform them of these items and request that appropriate action be taken to correct or overcome these deficiencies. When corrective action has been completed on this matter, please furnish this office with copies of pertinent correspondence, and an appropriate follow-up inspection will be scheduled.

A summary of this case will be included in the Movember report to the Office of the General Manager.

A copy of this memorandum and the attacement has been furnished the Office of the General Counsel.

Enclosure

Cpy Rpt Dtd 11/6/57 Cpy Memo Dtd 11/8/57, 11/15/57

cc W D English OGC w/encl R W Kirkman NYOO w/o encl El moso E

INS 11/19/57 LDLOW HB COMPLIANCE MMMANN

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Office Memorandum . UNITED STATES GOVERNMENT

TO I. D. Low, Inspection Division, Washington, L.S., DATE & Mix

FROM : Robert W. Kirkman, Director, Inspection Division, New York Operations Office

SUBJECT ADDITIONAL INFORMATION CONCERNING OVEREXPOSTIES AT U U P DI CORPORATION - LICENSE 37-30-2 W/AMEND 1-6

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As you requested, the following information is sumplied concerning the over-exposures received by several individuals at U.S. Radiu. Corporation. The data supplements that in Axhibit which mur inspection report forwarded on November 2, 1057

P. PALMERI		A. WOODPIM		4 10 11 ET V	
September 8 September 15 September 22 September 29	70 340 40 20	June 30 July 7 July 14 July 21 July 26 Aug. 4 Aug. 11 Aug. 18 Aug. 25 Sept. 1 Sept. 8 Sept. 15 Sept. 22 Sept. 29	0 0 50 0 40 160 220 150 163 50 90 60	May 5 Ney La May 19 May 2' June 2 June 2 June 3 June 3 July 7 July 1 July 21 July 28 Aug 4	19 15 150 150 150 150 150 150 150 150 150
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Office Memorandum . United STATES GOVERNMENT

TO Marvin M. Mann, Assistant Director Division of Inspection, Washington

DATE:

11/8/57

FROM: Robert W Kirkman, Director Inspection Division, NICO

RECOVERED DECK MARKER, U. S. RADIUN CORPORATION, LICENSE NO 37-30-2 (AS AMENDED) 10 CFR 30

SYMBOL: INS:WEK

As requested in your memorandum of September 25, 1957 (Symbol: INS LDL, same subject), the following information is forwarded.

Mr. H. H. Doeley, the Chief Chemist of U. S. Radium Corporation, provided the following data concerning the sale of deck markers. Approximately 300,000 deck markers were sold to the Navy under 4 or 5 different contracts. A typical contract, N155s-10692 noted in paragraph 2 of enclosure (1) to Chief, BuShips letter serial 348-192 of September 3, 1957 forwarded with your memo of 9/25/57, consisted of

Shipped	1-29-54 2-16-54 2-25-54 3-9-54	5,200 deck markers 6,800 deck markers 4,800 personnel markers 3,280 personnel markers	
	3-17-54	8,400 deck markers	Total: - 28,480 markers
Shipped	1-29-54 2-4-54 2-11-54 2-19-54	5,600 deck markers 4,400 deck markers 3,200 deck markers 11,200 deck markers	TO: Naval Supply Center General Supply Depot Oakland, Californis
•	3-25-54 3-9-54 3-17-54	4,000 personnel markers 6,100 personnel markers 7,839 deck markers	

A list of all shipments to purchasers other than the U. S. Navy is attached to this memo and would appear to indicate that of the deck markers so sold, few if any, remained in the continental U. S. A.

We feel that in view of the relative numbers of deck markers purchased by the Havy as compared to the number sold to other concerns, it appears probable that the recovered deck marker was of Mavy origin.

For your information, each deck marker of the type recovered, contains approximately 300 microcuries of Sr⁵⁰. Deck markers currently being produced contain tr⁵⁵ instead of Sr⁵⁰:

Enclosure:

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DATE	COSTONER	THE AND CHATTIN	ATTIL NO FE
7-20-53	United Kingdom Scientific	10 deck	F-1416
	Mission, Washington, D. C.		
8-11-53	Engineer Research and		
	Development Lab., Fort Belv		21141
	P 4	2 deak	
5-11-54	Atonic Energy of Canada Ltd	2 Vehicle	F-1292
7-20-54	Legation of Switzerland,	JOO GEER	\$ ~ 1 × 7
1-40-74	Weshington, B. C.	10 deck	
		5 personnel	1-1816
2-3-55	C.H.B.S. (Hew York Office)	100 deck	F-27
•	Mrs. J. Barnheim, Director	50 personnel	
2-3-55	Telian Technical Delegation		F-2109
	Washington, D. C.	100 personnel	
2-3-55	Redium Chemical Co. New Yor		7-20 0
	for Belgius.	100 personnel	T 2026
3-17-55	Logation of Switzerland,	25 deck	F-1816
0.3.55	Washington, D. C. Haval Research Laboratory,	25 personnel 12 deck	30 70 2=*
9-1-55	Weshington, D. C.	12 Geek	J0704
9-20-55	QN Research and Development	t.	
,	Matick, Massachupetts	10 personnel	34105
8-15-55	Engineer Research and Devel	•	
	Lab., Fort Belveir, Va.	30 personnel	34 0 5°
12-7-55	British Embessy, Washington	n, D.C. 20 teblole	%-26 57
2-13-56	C. H. R.S. (New York Office),	505 deek	1-28/ °
	Mrs. J. Bernheim, Director		
2-24-56	Bie and Bernstein (Denmark		-
3-13-56	J. B. Fouchaux Co. (Canada		•
3-23-56	Chartiers Havals Joe. Boel	50 deak	_
7 70 86	and Fils (Belgium) Ste A and P Ficard (France	_	_
7-30-56 5-18-56	Carbide and Carbon Chem. Co		•
7-10-70	Oak Ridge, Tonnessee	2 deck	268.4-6
9-20-56	U. S. Marine Corps., Washin		~4 17 *
,	D. C.	10,080 vehicle	
19-16-56	H. S. Radium Corp. (Europe) 50 personnel	-
12-3-56	Redelin-Kirk Ltd. (Canada)	12 deck	•
12-28-56	Kungl Karinfarvaltniager,	10 deck	•
	Stockhole, Sweden	5 personmer	
3-19-57	W. S. Radium Corp. (Europe		•
4-4-47	₩	5 decok	•
4-10-57 and	Redelin-Kirk Ltd.	630 deak	•
4-24-57	Service Commercual De La I		-
8-28-57	Militaire, Spain.	25 deck	•
8-30-57	Dr. E. J. Wilson, Atomic E	_	₩
	Bes. Establishment, Harwel		
	erman er enna en la maren en e		

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